

different from the particles and a lesser amount of uncoated or partially coated particles and particles of the coating material. Particles of the coating material are significantly reduced by this method.--

In the claims:

Please delete claim 14 and amend claims 1,5,13,16 and 17 as follows:

1.(Twice Amended) A method for coating solid particles comprising the steps of

(a) adding solid particles to a liquid coating solution or precursor solution to form a liquid coating slurry containing a coating precursor, solvent for the precursor and the solid particles dispersed therein whereby the precursor material is not precipitated until after spraying,

(b) spraying the coating slurry to form droplets containing at least one particle,

(c) passing the droplets through a zone where the droplets are dried and form dry coated particles wherein the coating material is formed from the coating solution the precursor material, and

(d) heat treating the coating material on the particles to remove volatile matter from the coating material.

5.(Amended) The method of claim 3 wherein the particles are less than about 50 microns in diameter, temperature in the zone is 100-500°C, dilution ratio in the coating slurry of milliliters of coating solution or precursor solution per gram of phosphor particles is 200-3000, thickness of the coating material on the

particles is 2-200 nm, velocity of the droplets in the zone is 1-50 cm/sec, and residence time of the droplets in the zone is 0.1-10 seconds.

13. (Twice Amended) A method comprising the steps of

- (a) preparing a liquid precursor solution by dissolving a coating precursor in a liquid precursor solvent;
- (b) mixing the precursor solution with a diluent, that is miscible with the precursor solvent, to form a liquid coating solution;
- (c) adding with mixing solid particles to the coating solution to form a liquid coating slurry containing the coating precursor dissolved in the coating solution and the solid particles dispersed therein whereby the precursor is not precipitated until after spraying;
- (d) spraying the coating slurry to form droplets containing at least one particle;
- (e) passing the droplets through a zone where the droplets are dried and form dry particles coated with a coating material formed from the precursor(s) solution;
- (f) heat-treating the coating material on the particles to remove volatile matter on the coating material and to convert the coating material from electrically non-conducting amorphous to electrically conducting crystalline material.

16. (Amended) The method of claim 15 wherein the particles are less than about 100 microns in diameter, dilution ratio in the coating slurry of milliliters of coating solution or precursor solution per gram of phosphor particles is 100-5000,